ECO$_2$school Workshop

Designing for Change

A solution based workshop to help students address the problem of climate change.

Linked to Next Generation Science Standards, and Common Core.
Based on Service Learning principals.

**Day 1: Education:** Locating students in their place on the continuum of climate science and leadership.

**Day 2: Ideation:** Facilitating the creative process of generating developing and communicating new ideas.

**Day 3: Actualization:** Students develop and present their prototypes to a panel of community experts.

We support you in helping your students develop a deep understanding of climate and innovate for positive and impactful action.

To schedule your **free workshop** contact Amy Jolly 525-1665 x119 or eco2school@climateprotection.org
Curriculum Unit: Designing for Change

Designing for Change is a three-day workshop to help students deepen their understanding of climate and address the problem in positive and impactful ways.

- **Day 1, Education:** The workshop begins with an overview of basic climate science principles and historical context of climate science.
- **Day 2, Ideation:** Using the principles of Design Thinking students are led in a creative process of generating and developing innovative projects that address climate change.
- **Day 3, Actualization:** Students develop a physical prototype of their solution and present them to a panel of community stakeholders. Stakeholders provide feedback and added insight and mentorship.

Standards:

**HS-ESS3-C. HUMAN IMPACTS ON EARTH SYSTEMS** When the source of an environmental problem is understood human activities can be regulated to mitigate global impacts.

**HS-ESS3-4** Scientists and engineers can make major contributions by developing technologies that produce less pollution and waste and that preclude ecosystem degradation.

**HS-ESS3-6. GLOBAL CLIMATE CHANGE** Important discoveries are still being made about how the ocean, the atmosphere, and the biosphere interact and are modified in response to human activities.

**HS-ETS1-2 CONSTRUCTING EXPLANATIONS AND DESIGNING SOLUTIONS** Design a solution to a complex real-world problem, based on scientific knowledge, student-generated sources of evidence, prioritized criteria, and tradeoff considerations. (HS-ETS1-2)

Supplemental Activities: These are activities designed to be implemented by the teacher to deepen and enrich students’ workshop experience.

1. **Literature Review:** Students read current event articles and information related to climate literacy and participate effectively in collaborative discussions with diverse partners building on others’ ideas and expressing their own clearly and persuasively. CCSS.ELA-LITERACY.SL.9-12.1

2. **Community Interviews:** Students talk to peers and family, to elicit stories and deepen their understanding of motivations, values and perspectives of community members on the topic of climate.

3. **Students Are Making a Difference:** Students use the Internet to find examples of projects led by peers and learn how they reduced their schools’ carbon footprint. Students use this information to help develop their prototypes.

Additional supplemental materials are available upon request.